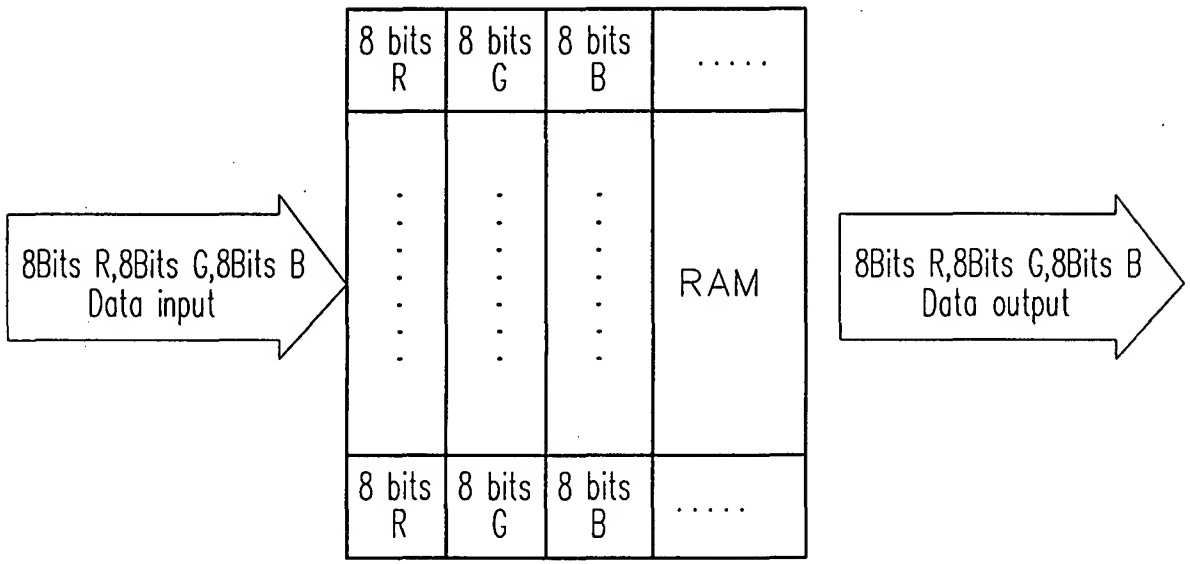
8 bits R
8 bits G
8 bits B
.....
8Bits R,8Bits G,8Bits B Data input
RAM
8Bits R,8Bits G,8Bits B Data output
8 bits R
8 bits G
8 bits B
.....

Fig . 1

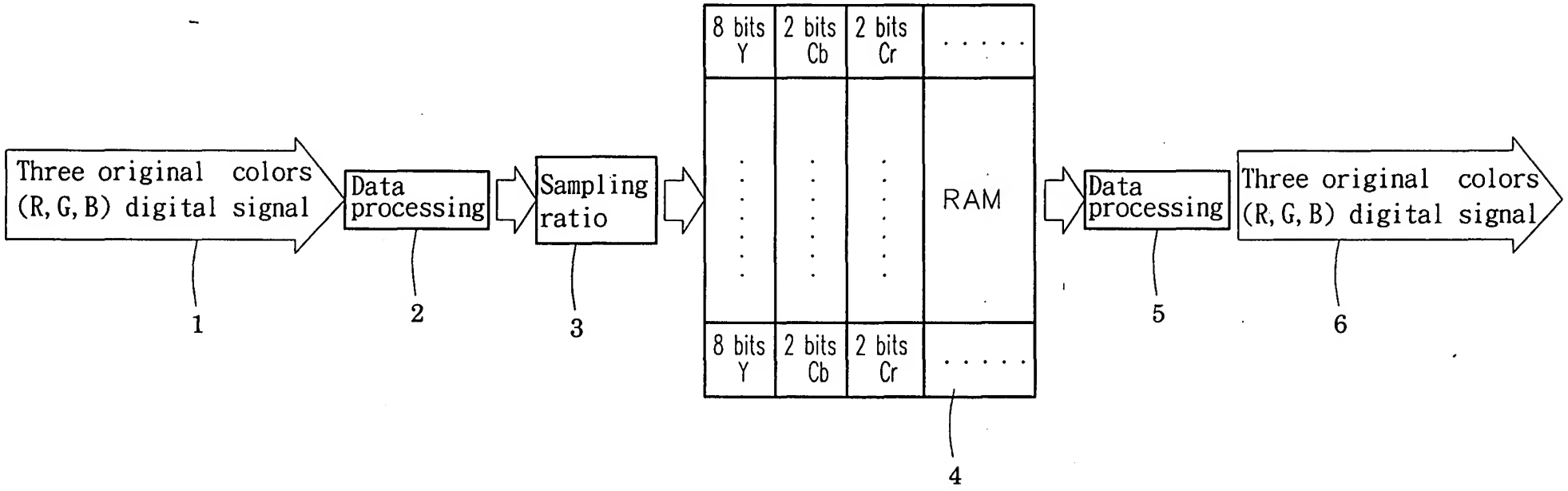
Three original colors (R, G, B) digital signal
Data processing
Sampling ratio
8 bits Y
2 bits Cb
2 bits Cr
RAM
Data processing
Three original colors (R, G, B) digital signal
1
2
3
4
5
6

Fig . 2

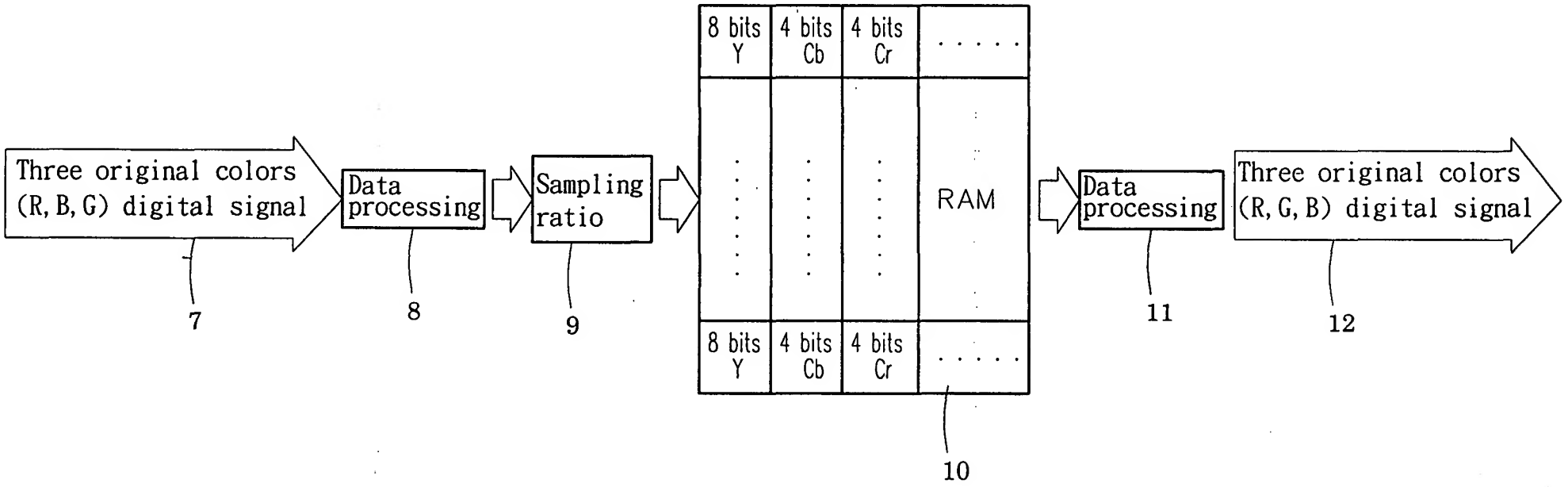
Three original colors
(R, B, G) digital signal
Data processing
Sampling ratio
8 bits Y
4 bits Cb
4 bits Cr
RAM
Data processing
Three original colors
(R, G, B) digital signal
7
8
9
10
11
12

Fig . 3